

Fig. 1



Fig. 2

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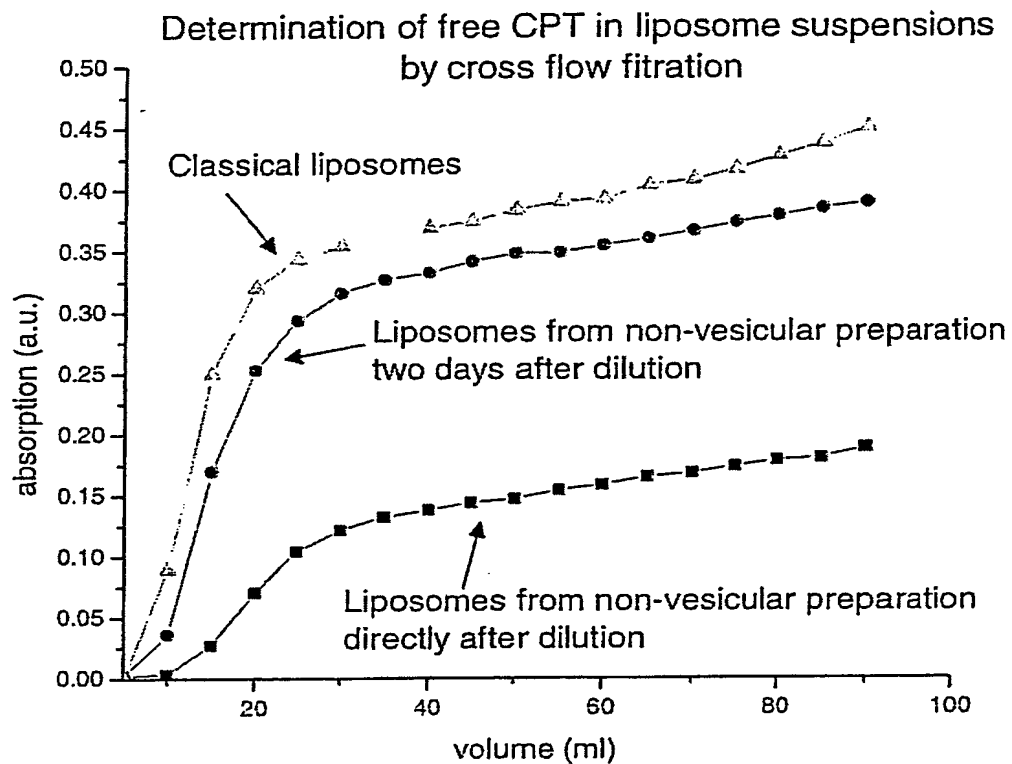


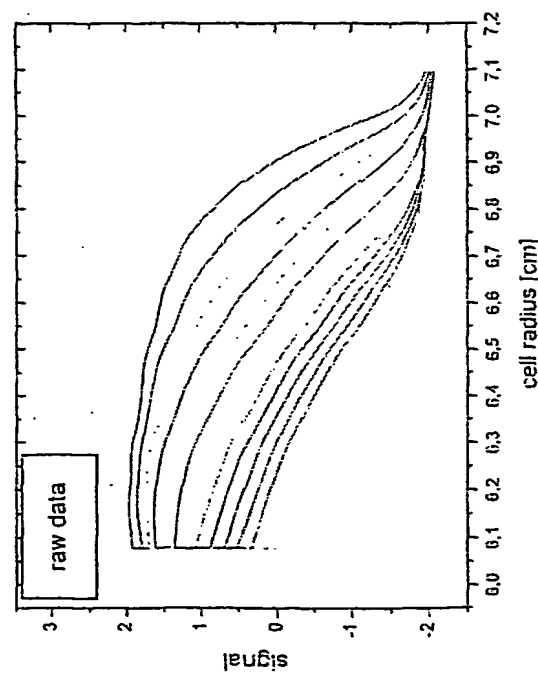
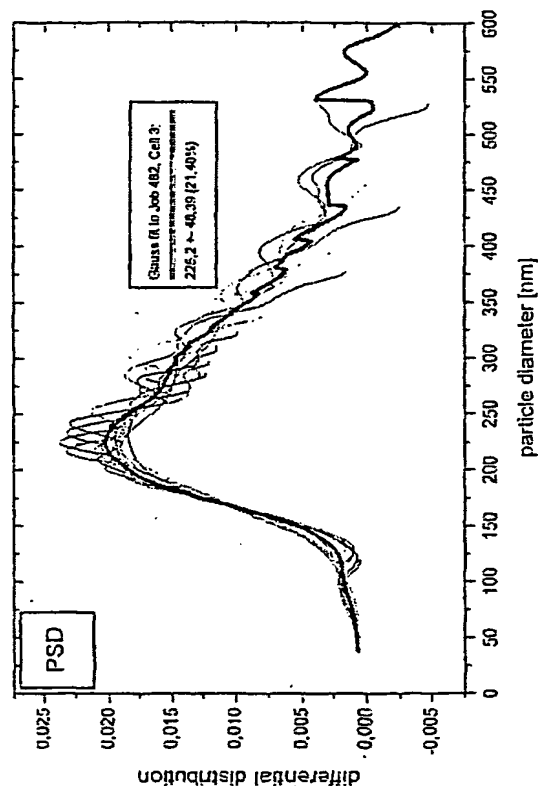
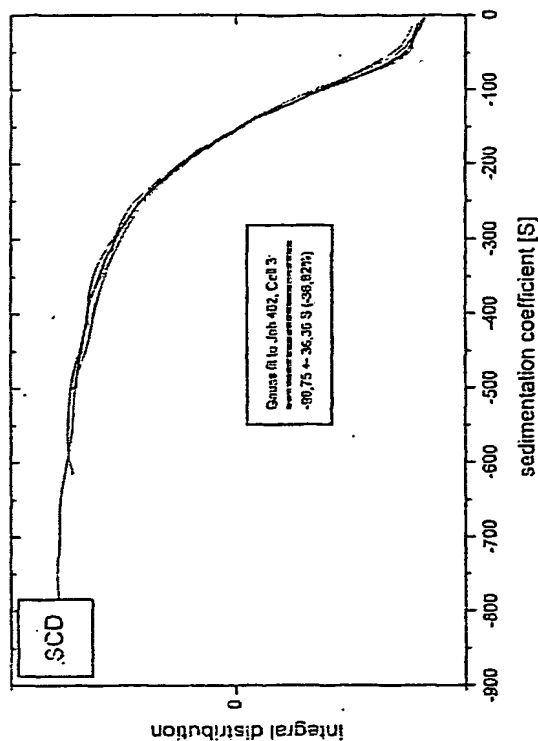
Fig. 3

Sedimentation velocity experiment

sample parameters		run parameters		data selection	
cell	mlt	run	482	radius	6.035 cm
cell	UF60	cell	3	cell	7.104 cm
cell	water	cell	09/11/02	cell	6.087 cm
cell	Int@675nm	cell	12	right diameter	7.087 cm
cell	Freund	cell	12	left diameter	1
cell	Schilling	cell	0.491 GHz	left radius	12
boundary analysis		pressure correction		solvent properties	
cell	0.7259 S	pressure	0.1e9/Pa	solvent density	1.02 g/ml
cell	0 GHz	cell	0	solvent viscosity	0.0115 P
cell	-600.74 mPa/s	cell	0	particle density	1.01 g/ml
cell	-83.394 S	cell	0 mly	particle radius	1.30

run 482/3, scan 00001 of 09/11/02, 13:28:45 at T=293 K, 10000 rpm, 2947 s, $\omega_1 = 1.094$ GHz, Int @ 675 nm
 run 482/3, scan 00002 of 09/11/02, 13:36:08 at T=293 K, 10000 rpm, 3500 s, $\omega_1 = 2.508$ GHz, Int @ 675 nm
 run 482/3, scan 00003 of 09/11/02, 13:43:08 at T=293 K, 10000 rpm, 4047 s, $\omega_1 = 3.101$ GHz, Int @ 675 nm
 run 482/3, scan 00004 of 09/11/02, 13:54:13 at T=293 K, 10000 rpm, 4593 s, $\omega_1 = 3.700$ GHz, Int @ 675 nm
 run 482/3, scan 00005 of 09/11/02, 14:03:17 at T=293 K, 10000 rpm, 5133 s, $\omega_1 = 4.202$ GHz, Int @ 675 nm
 run 482/3, scan 00006 of 09/11/02, 14:12:22 at T=293 K, 10000 rpm, 5678 s, $\omega_1 = 4.691$ GHz, Int @ 675 nm
 run 482/3, scan 00007 of 09/11/02, 14:21:31 at T=293 K, 10000 rpm, 6228 s, $\omega_1 = 5.402$ GHz, Int @ 675 nm
 run 482/3, scan 00008 of 09/11/02, 14:30:40 at T=293 K, 10000 rpm, 6778 s, $\omega_1 = 6.095$ GHz, Int @ 675 nm
 run 482/3, scan 00009 of 09/11/02, 14:39:49 at T=293 K, 10000 rpm, 7323 s, $\omega_1 = 6.694$ GHz, Int @ 675 nm
 run 482/3, scan 00010 of 09/11/02, 14:46:57 at T=293 K, 10000 rpm, 7871 s, $\omega_1 = 7.295$ GHz, Int @ 675 nm
 run 482/3, scan 00011 of 09/11/02, 14:58:04 at T=293 K, 10000 rpm, 8416 s, $\omega_1 = 7.894$ GHz, Int @ 675 nm
 run 482/3, scan 00012 of 09/11/02, 15:07:08 at T=293 K, 10000 rpm, 8960 s, $\omega_1 = 8.491$ GHz, Int @ 675 nm

Fig. 4



particle diameter [nm]
AUC sedimentation velocity analysis software © 2002 by Nanalytics

Sedimentation velocity experiment

sample parameters		run parameters		data selection	
customer	mbi	run	484	meniscus	8,060 cm
sample	UF62	cell	3	bottom	7,105 cm
solvent	water	date	09/13/02	left clipping	6,413 cm
cell	int@675nm	# of scans	55	right clipping	7,010 cm
cell	Friend	scans used	55	first scan	1
cell	Schilling	max integral	15.40 GHz	last scan	55
boundary analysis		measure correction		solvent properties	
th. cell coeff.	-69.746 S	gamma	0.1e9/Pa	sol. density	1.02 g/ml
base integral	-0.3383 GHz	m	0	sol. viscosity	0.0115 P
meat velocity	-474.29 nm/s	l1	0	part density	1.01 g/ml
ref. cell coeff.	-65.042 S	ks	0 ml/g	l1 ratio	1.30

run 4842, scan 00001 of 09/13/02, 13:47:25 at T=298 K, 10000 rpm, 2301 s, $\omega_1 = 1.204$ GHz, int @ 675 nm
 run 4842, scan 00002 of 09/13/02, 13:51:15 at T=298 K, 10000 rpm, 2533 s, $\omega_1 = 1.458$ GHz, int @ 675 nm
 run 4842, scan 00003 of 09/13/02, 13:55:14 at T=298 K, 10000 rpm, 2768 s, $\omega_1 = 1.713$ GHz, int @ 675 nm
 run 4842, scan 00004 of 09/13/02, 13:59:16 at T=298 K, 10000 rpm, 3012 s, $\omega_1 = 1.963$ GHz, int @ 675 nm
 run 4842, scan 00005 of 09/13/02, 14:03:16 at T=298 K, 10000 rpm, 3252 s, $\omega_1 = 2.248$ GHz, int @ 675 nm
 run 4842, scan 00006 of 09/13/02, 14:07:16 at T=298 K, 10000 rpm, 3488 s, $\omega_1 = 2.505$ GHz, int @ 675 nm
 run 4842, scan 00007 of 09/13/02, 14:11:18 at T=298 K, 10000 rpm, 3734 s, $\omega_1 = 2.772$ GHz, int @ 675 nm
 run 4842, scan 00008 of 09/13/02, 14:15:17 at T=298 K, 10000 rpm, 3973 s, $\omega_1 = 3.036$ GHz, int @ 675 nm
 run 4842, scan 00009 of 09/13/02, 14:19:17 at T=298 K, 10000 rpm, 4212 s, $\omega_1 = 3.298$ GHz, int @ 675 nm
 run 4842, scan 00010 of 09/13/02, 14:23:16 at T=298 K, 10000 rpm, 4445 s, $\omega_1 = 3.554$ GHz, int @ 675 nm
 ... 43 more scans
 run 4842, scan 00055 of 09/13/02, 17:23:31 at T=298 K, 10000 rpm, 15247 s, $\omega_1 = 15.40$ GHz, int @ 675 nm

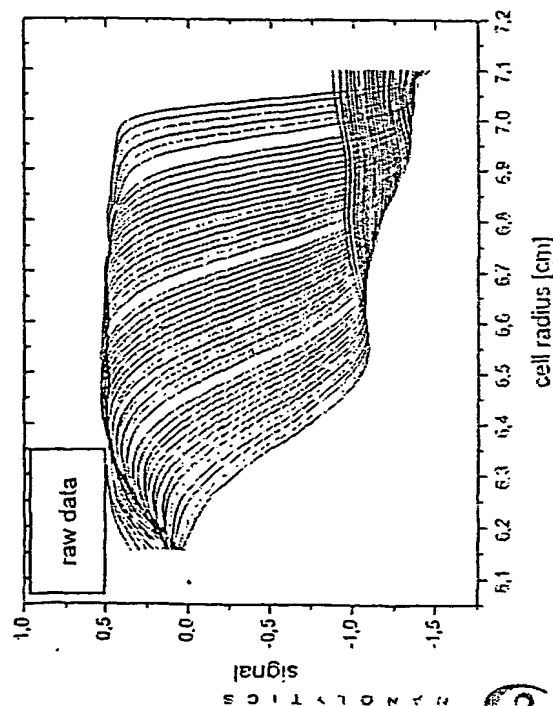
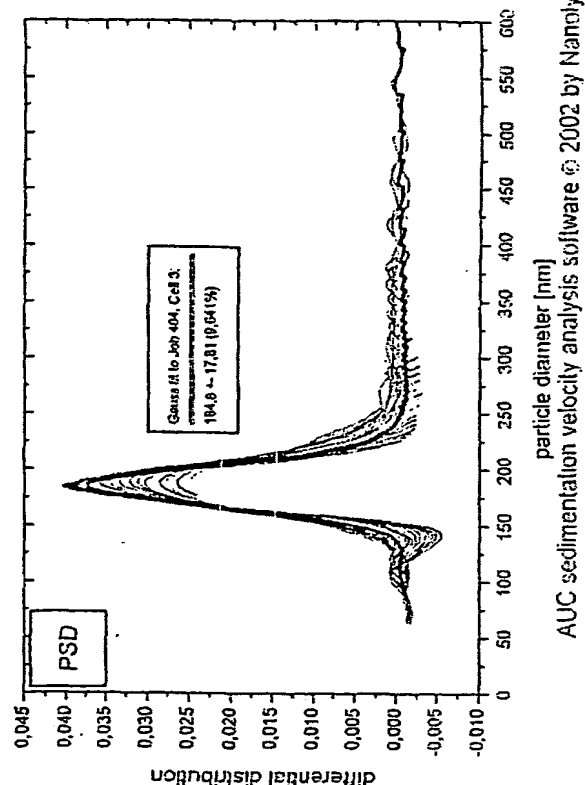
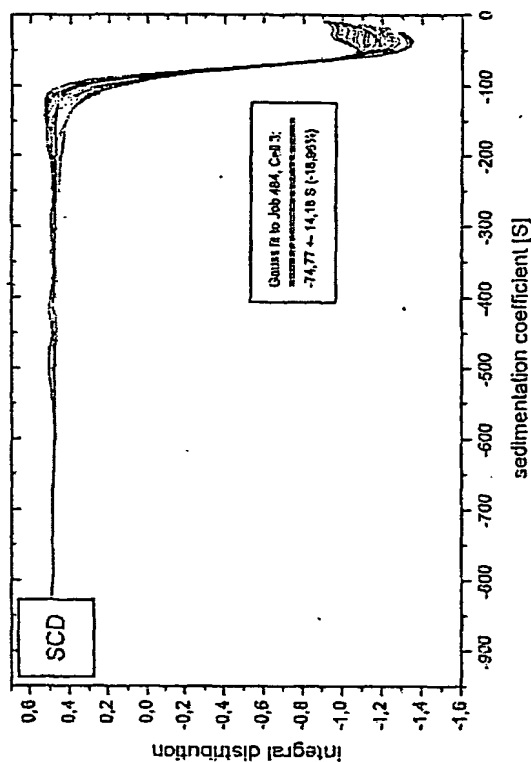


Fig. 4 (Continued)



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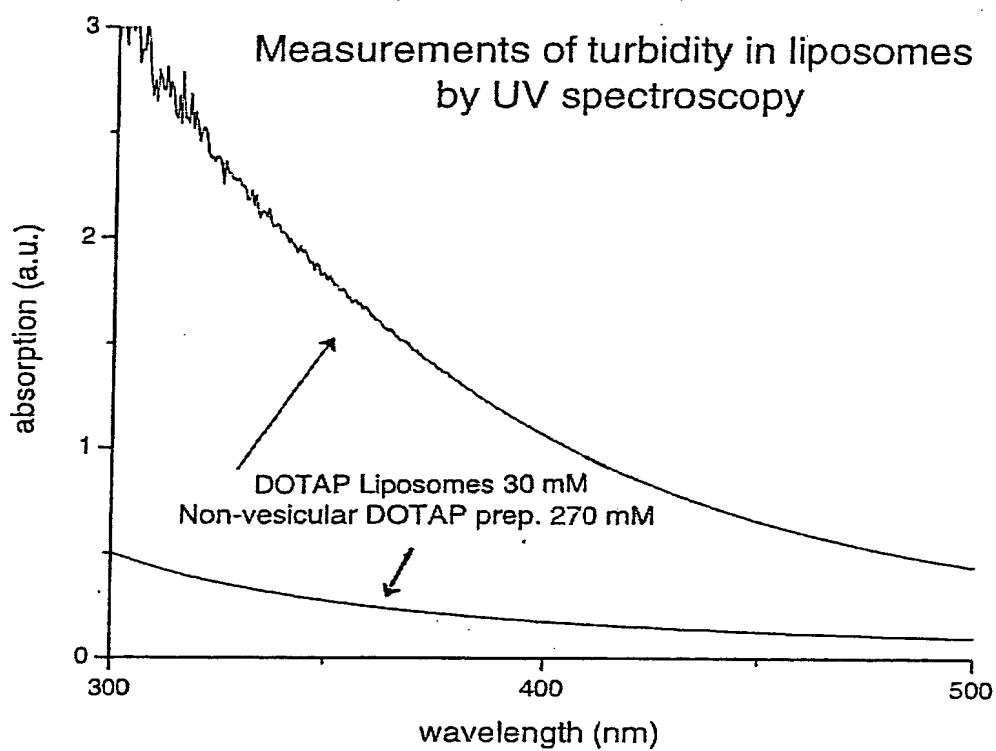


Fig. 5